ECHOLITE®

High definition DVB - C Set Top Box

User`s Manual

HDC-2210

Digital picture, Digital sound, Digital world of ECHOLITE®

english

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Safety Instructions

Notes

- Always read the safety instructions carefully
- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- Lay this equipment on a reliable flat surface before setting it up.
- Do not stand it on soft furnishings.
- If any of the following situation arises, get the equipment checked by a service technician:
  - The equipment has been exposed to moisture.
  - The equipment has been dropped and damaged.
  - The equipment has obvious sign of breakage.
  - The equipment has not been working well or you cannot get it work according to User's Manual.

Warning

- To prevent the risk of electric shock, do not open the cover or the back of the receiver.
- Do not block the ventilation holes of the device. Leave appropriate gap above and around it to allow for adequate ventilation.
- Do not place the device in an unventilated cabinet or on top of a unit which emits heat.
- The MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable

Copyright Statement

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Disclaimer

Information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

This symbol indicates that this product incorporates double insulation between hazardous mains voltage and user accessible parts, when servicing use only identical replacement parts.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or colds.

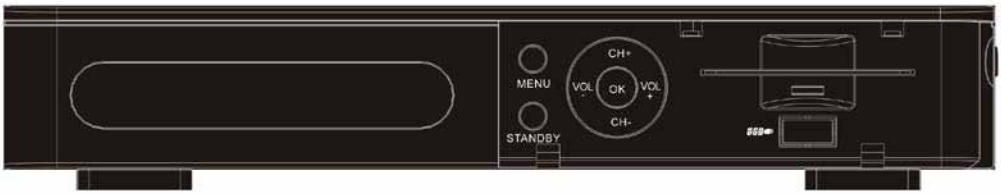
Introduction

This DVB-C TV Receiver is a digital cable receiver allowing you to access digital terrestrial paid TV channels and radio broadcasts on your TV set. Its digital reception covers VHF & UHF band. Compared with the analog TV programs, digital TV programs eliminate the noise and interference but offer high quality video and audio.

Main Features

- Fully compliant with DVB-C digital TV reception standards.
- Support demodulation 64QAM and 256QAM for DVB-C digital TV signal.
- HDTV/SDTV MPEG-2 & MPEG-4 / H.264 decoding.
- Support 480i/480p/576i/576p/720p/1080i.
- Support CONAX CA.
- 16-bit color OSD display.
- HDMI output for High Definition.
- Support S/PDIF audio output.
- Support teletext/subtitle/multi-language.
- Support EPG.
- Channel edit function including Favourite, Move, Delete, Lock,Skip,Rename.
- Variable aspect ratio (4:3, 16:9) 4:3 Pan & Scan or Letter Box modes.
- Support USB 2.0 and OTA software upgrade.
- Support USB 2.0 PVR. MP3, AVI, DAT, MKV, MP4, MPG, VOB, WMA, BMP, JPG photo playback.

Front panel and rear panel illustration



⏻ : Used to turn on/off the mains power supply.

LED DISPLAY: Used to display the time or channel number.

SENSOR：Receptor remote.

VOL-: To decrease the volume level.

VOL+: To increase the volume level.

CH-: TO change channels downward.

CH+: TO change channels upward.

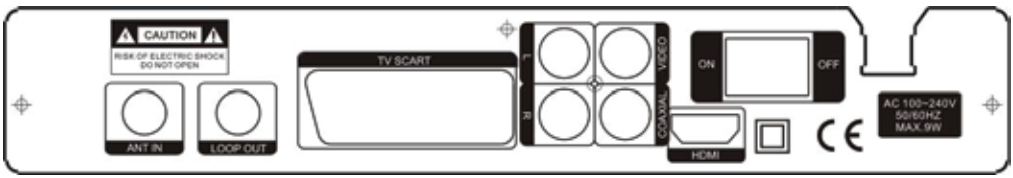
OK: To confirm the choice with the highlighted menu item.

Menu: To enter the main menu. Press the button again to return to the previous menu.

USB：Support USB 2.0 PVR. MP3, JPG photo, playback.

SMARTCARD SLOT: Open the right-hand flap on the front panel to insert the smartcard here

Rear Panel



1. ANT IN：Connects to your external aerial.
2. LOOP OUT： RF loop through output to another receiver.
3. TV-SCAR：Digital video output.
4. AUDIO L/R：This two jacks (white/ red) output analog audio signal.
5. Video ：This jack outputs composite video signal. Standard definition only 480i and 576i resolution.
6. COAXIAL output：Phono socket for Digital audio output connects to TV or HiFi.
7. HDMI：Connects to the TV using an HDMI cable for HD viewing (760p & 1080i).
8. POWER SWITCH：To switch the set top box to on and off.
9. Power In：AC 100~240V, 50～60Hz

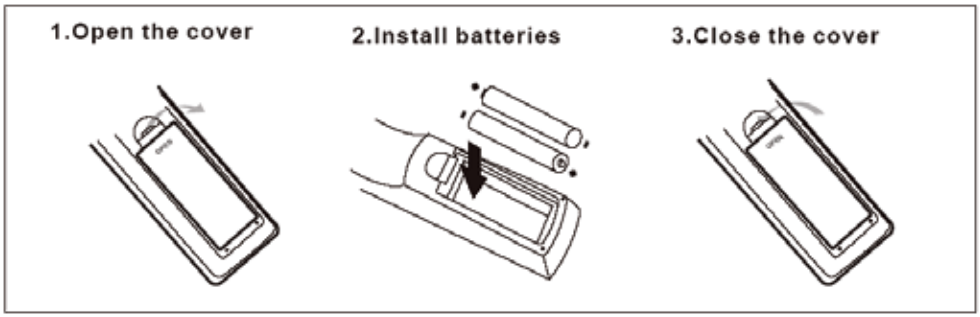
Remote control

Remote key functions

KEY	FUNCTION
⏻	Standby ON /OFF
🔇	Mutes the sound
0-9	To select a channel by direct number input
Audio Select	Enter audio settings menu.
INFO	To display current program information
MENU	To enter the main menu
EPG	Show EPG(Electronic Program Guide)
FAV	To access your favourite channels list
EXIT	To exit to the previous screen or menu
◀▶	To increase/reduce volume,or move cursor left/right
▲▼	Channel change,,or move cursor up/down
CH+/CH-	To move around the menu screens and decrease or increase the volume level.
VOL+/VOL-	To move around the menu screens and select a channel in normal TV view mode.
OK/LIST	To confirm a selection in a menu and enter the channel list in normal viewing mode
🔴	To assist operation in teletext mode and menu mode or to open PVR menu.
🟢	MAIL:Press MAIL button to E-mail function.
🟡	Press SCAN button to enter a key search.
🔵	To assist operation in teletext mode and menu mode or to switch between different audio languages that are broadcasted or set the sound mode.
TV/R	To switch between TV and Radio channels
FORMAT	To switch the video resolution 480i, 576i, 576p,720p, 1080i.
SUBT	To switch between available subtitles
ASP	To switch the video aspect ratio
BACK	To switch between the last viewed d channel and the current channel being viewed.

Installing the batteries

Remove the battery cover from the remote control and put two AAA size batteries inside the compartment.
The diagram inside the battery compartment shows the correct way to install the batteries.



Caution

1. Keep batteries out of children's reach.
2. Don't attempt to recharge, short-circuit, disassemble heat or throw the batteries into the fire.
3. Always replace both batteries at the same time. Never mix new and old batteries or batteries of a different type.
4. If you don't intend to use the remote controller for an extended period, remove the batteries to prevent possible leakage and corrosion.
6. Do not drop, apply shock or step on the remote control.
7. Do not spill water on the remote control.
8. The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

Note: If the receiver does not operate when operating the remote control from a close range, you need to replace the batteries.

Using the Remote Control

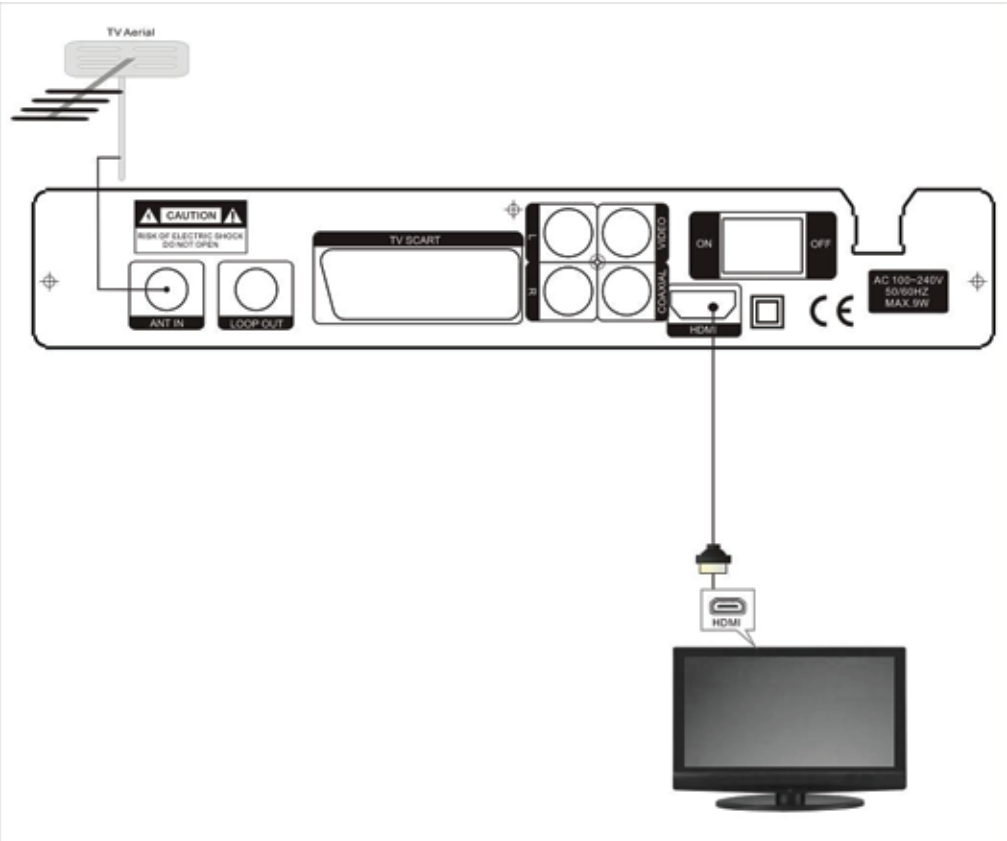
1. To use the remote control, point it towards the front of the digital set top box.
2. The remote control has a range of up to 7 meters from the set top box at an angle of up to 60 degrees.
3. The remote control will not operate if its path is blocked.

Note: Sunlight or very bright light will decrease the sensitivity of the remote control.

Connecting to equipments

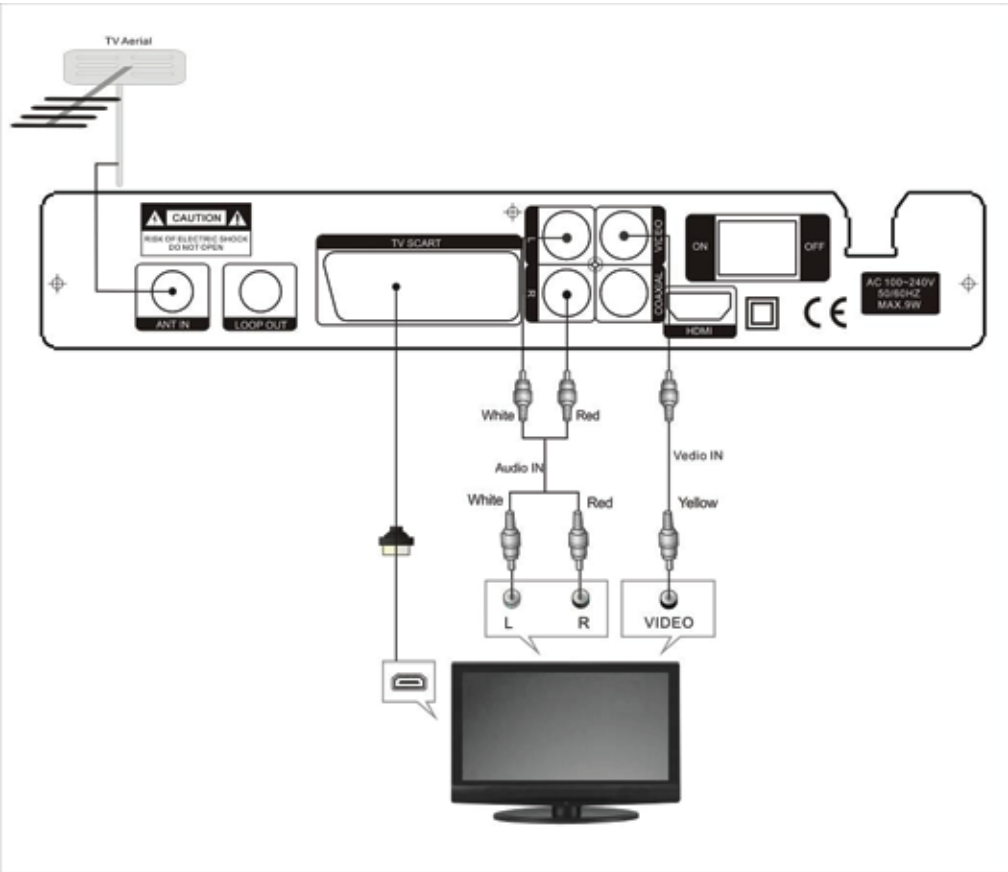
This section explains the installation of stb. Consulting the manuals supplied with equipment for the installation.

Connect the **TV** using **HDMI**



Connecting to equipments

Connect the TV using SCART or AV



First Steps

1. Insert the plugs of the stb and the auxiliary equipment into the socket and turn them on gallows.
2. Select the channel on the television machine av.
3. Channels comes pre-programmed factory to see if there is some new channel enable automatic channel search.

First time installation

Switch on the unit for the first time

Ensure all connections have been made following the diagrams on the previous pages for reference. To switch on the set top box, press the Power button on the set top box. If you are using the receiver for the first time, a message will be displayed to ask to select the OSD language with ▲/▼button.

Channel search

Press【OK】 button to launch auto search once selected.
Press【menu】 or 【exit】button to enter Main menu.

NOTE: Please ensure the mains power switch on the front of the unit is set at ON position.

Basic Operation

Change Channels

1. Press the numeric buttons (0~9) on the remote control to select the channel you want.
2. Press the ▲/▼button on the remote control/the front panel to change the available channels upward/downward.
3. Press the RECALL button to view the last viewed channel.

Adjust the volume control

Press the VOL+ button to increase the volume level and press the VOL - button to decrease the volume level.

Mute the sound output

Press the MUTE button to temporarily cut off the sound output, press the MUTE button again to cancel.

Change an audio language and audio mode

Press the AUDIO button and press the ◄/►, ▲/▼ buttons to select the available audio languages and audio mode to STEREO, RIGHT or LEFT.
NOTE: the available audio languages depend on the program providers.

Change TV/Radio mode

Press the TV/R button to change the program list mode between TV and Radio.

View program information

1. Press INFO button to view the detailed information of current viewed program.
2. Press the INFO or EXIT button to exit.

Subtitle

Press the SUBT button to switch subtitle on or off.
NOTE: the available subtitles depend on the program providers.

Channel List

Press the OK button to display the channel list.

MAIL

Press MAIL button to display the mails from the program providers.

SCAN

Press SCAN button to enter a key search.

Teletext and EPG Operation

View teletext

1. Press the TTX button to open a teletext page, press again to exit.
2. Press the 4 colour buttons to change the navigation page.
3. Press the ▲/▼ button to change the page upward/downward
4. Press the numeric buttons (0-9) to change your required page.

NOTE: the available teletexts depend on the program providers

EPG (Electronic Program Guide)

The EPG menu is used to view the events in the broadcasted programs. The amount of detail depends on the program providers, some only provide now and next information

Press the EPG button to access the EPG menu, all the events of the current viewed channel will be displayed on the left window and the content of the selected event will be displayed in the right area.

Press the ◄/►buttons to change the channel.
Press the ▲/▼ buttons to change the event.
Press the GREEN/RED color button to page the event information up/down.
Press the EXIT button to exit the EPG menu.

Menu Operation

Main Menu

Press the MENU button to enter the main menu, Press the EXIT button to exit the main menu.
The main menu has 6 items: Program, Channel Search, System, Multimedia, Conax-CA and Information.

1. Program

Select the left [Program] item by the ▲/▼ Button for Program Manage Settings. Select a right option and press OK or ► to adjust that setting. Press EXIT button to exit the Menu.

1.1 Program Edit

To edit your program preferences (lock, skip, favourite, rename, move or delete), you will need to enter the Program Edit Menu. Press the EXIT button to save and exit the Menu.

favorite channel

To set any program to a favourite group.
1. Press the ▲/▼ button to select the channel you want to make favor.
2. Press the FAV button to set and again to clear.

move channel

To organize the number or sequence of the channels
1. Press RED Color button in the position of one program
2. Press▲/▼ button to move to the position of the other program you want.
3. Press OK button to confirm.

skip channel

To skip any unrequired channels while changing channels
1. Press the ▲/▼ button to select the channel you don't love to view
2. Press the GREEN button to set and again to clear
zašli.

lock channels

To lock some unsuitable channels to prevent children from viewing
1. Press the ▲/▼ button to select the channel you want to lock
2. Press the YELLOW color button to lock and again to unlock. When channel is unlocked, a password box will be displayed to ask to input the pin. The default is "000000".

delete channel

To delete any channel from the channel list
1. Press the ▲/▼ button to select the channel you want to delete.
2. Press the BULE button to enable a dialog and the press OK button to confirm deletion.

Menu Operation

1.2 EPG (Electronic program guide)

The EPG menu is used to view the events in the broadcasted programs. The amount of detail depends on the program providers, some only provide now and next information

Press the EPG button to access the EPG menu, all the events of the current viewed channel will be displayed on the left window and the content of the selected event will be displayed in the right area.

1.3 Sort

To sort your channels in the channel list by the following items:
[By LCN] - Sort the channels in ascending order.
[By Service Name] - Sort the channels in alphabetical order.
[By Service ID] - Sort the channels according to the service ID of the program.
[By ONID] - Sort the channels according to the original network ID of the program

1.4 LCN (Logical channel number)

The logic channel number is determined by the program provider.

Menu Operation

2. Channel search

Select the left [Channel search] item by the ▲/▼ Button to scan channels. Select a right option and press OK to start. Press EXIT button to exit the Menu.

2.1 Auto Search

To scan channels by NIT information broadcasted.
1. Once selected, the stored programs will be cleared.
2. Any channels that have been found will be saved.
3. Press “Exit” button to interrupt scanning.

NOTE: Auto Search after you set the corresponding frequency.

2.2 Manual Search

To scan new channels by an appointed frequency
1. Press the numeric buttons (0-9) to input the frequency you require.
2. Press the numeric buttons (0-9) to input the symbol rate you require
3. Press the ◄/►button to select the correct modulation mode.
4. Press OK to launch when the quality bar of the signal shows red.

2.3 FULL Search

To scan channel by the default channel map

1. Once selected, the stored programs will be cleared.
2. Any channels that have been found will be saved.
3. Press “Exit” button to interrupt scanning.

2.4 Default search parameters

To set the central channel information used for Auto scan by NIT.

Menu Operation

3. System

Select the left [System] item by the ▲/▼ Button to config the machine. Press OK to set what you want. Press EXIT button to exit the Menu.

3.1 Parental Guidance

To set the rating level for viewer.
The menu is asked to input the pin , the default is “000000”.
[G] : General guidance [PG] : Parental guidance
[A]: Adult [X]: Erotic

3.2 Set Password

To change the password in the machine.
The default old password is “000000”.

3.3 Av Settings

3.3.1 Aspect ratio
To set the image display aspect ratio to 16:9 widescreen/4:3 letter box/4:3 full/4:3 pan scan/auto
3.3.2 Resolution
To set the video resolution to 576i/576p/20p/1080i.
3.3.3 TV Format
To set the tv format to PAL, NTSC.
3.3.4 Video Output
To set the Scart output to CVBS, RGB mode.
3.3.5 Digital Audio
To set the digital audio output mode to PCM/RAW.

3.4 OSD Settings

To set the OSD Language to what you want.

3.5 OTA Update

Set OFF, Time Update, Manual Update.

3.6 Time settings

3.6.1 Daylight saving time
To set the daylight saving time in your country/region.
3.6.2 Timezone
To set the timezone in your country/region.

3.7 Restore Factory Default

To reset your machine to the default factory settings.
The menu is asked to input the pin, the default is “000000”.
NOTE: This option will delete all preset channels.

Menu Operation

4. Multimedia

To access Multimedia.

4.1 Multimedia

When a USB device is connected with the USB port in the front panel, you can select from the Music, Photo, Movie or PVR options in this menu using the ◄ ► keys and OK to select. If a USB device is not connected, the warning message "No USB device is Found" will appear.

4.2 Photo Configure

To access the Menu
-Slide Time: adjust slide show interval to 1~8 seconds.
-Slide Mode: adjust slide show effect as mode 0~59 or random.
-Aspect Ratio:
[Keep]: Play picture in its original aspect.
[Discard]: Play picture in full screen mode.

4.3 Movie Configure

Aspect Ratio:
[Keep]: Play movie in its original aspect.
[Discard]: Play movie in full screen mode.

Subtitle Specific:
[Small]: Displays the subtitle as small mode.
[Normal]: Displays the subtitle as normal mode.
[Big]: Displays the subtitle as big mode.

Subtitle BG:
[White]: Displays the subtitle in white background.
[Transparent]: Displays the subtitle in transparent background.
[Grey]: Displays the subtitle in grey background.
[Yellow green]: Displays the subtitle in yellow green background.

Subtitle Font Color:
[Red]: Displays Subtitle in red font.
[Blue]: Displays Subtitle in blue font.
[Green]: Displays Subtitle in green font.

Note:

We cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assume no responsibility for any loss of data that may occur when connected to this unit.
-With large amounts of data, it may take longer for the system to read the contents of a USB device.
-Some USB devices may not be properly recognized.
-Even when they are in a supported format, some files may not play or display depending on the content.

Menu Operation

4.4 PVR Configure

IMPORTANT: This menu will be only available when it is connected to an external Hard Disk USB 2.0 properly formatted (FAT 32) as well as detected by the receiver. Always plug the external hard disk before turning on the receiver

4.4.1 To Record Program

Note: To record program, please connect the Hard Disk USB 2.0 with the receiver via the USB front first.
When you need to record the program that you are currently watching, you can press the REC red button on the remote control, and then a record time setting will appear on the top of screen.
To stop recording, press the Yellow button then a prompt will be showed to ask you to stop recording or not.

4.4.2 To Play or View Recorded

Program

All the recorded programs can be viewed and browsed under the **USB** menu.

Play the program

After accessing to USB menu, press the◄/►buttons to select the Recorded program save item. Press OK button to enter the Recorded program save item.
Press the ▲/▼ buttons to select the PVR List menu, then press OK button to play the recorded program. For full screen viewing, you can press the Red button again.
While the recording is playing ,a prompt will be displayed see the third screen down on the right.To return to the PVR Configure menu,select YES and press OK TO CONFIRM.
Press the RECALL button return to upper folder level.
While in the USB and Recorded program save item, menus the following key actions are available:
Select: Press OK button to enter the selected menu.
UP FOLDER: Press to return to the previous menu.
Preview: Press to Red button enter fullscreen mode.
DEL: Press to Yellow button delete the selected file.
Remane: Press to Green button Remane the selected file.

Menu Operation

5. Conax CA

Select the left [System] item by the ▲/▼ Button to set the Conax-CA or read information about CA. press OK to set what you want. Press EXIT button to exit the Menu.

5.1 CA Entitle

To view the current status of the subscription entitlements in the card.

5.2 Card Paring

To pair between Mother card and son card.

5.3 Mail

To view the mails sent form the program provider.

5.4 Change CA PIN

To change the password in the smartcard.
The default old password is "1234".

5.5 CA other set

To view Conax CA system information.

5.6 CA Information

To change the misc settings.

6. Information

To view the system information about the machine.

Tuner & Demodulator	
Compliant with	DVB-C
IF bandwidth	8MHz
Input Signal Frequency	51～862MHz
Input Signal Level	36dBuV～80dBuV（64QAM）
Constellations	16QAM/32QAM/64QAM/128QAM/256QAM

Video Decoding	
MPEG-2	MPEG-2 @HL/ML
MPEG4	MPEG4 AVC H.264 MP@level 4
Aspect ratio	4:3 or 16:9
Active pixels	1920x1080i, 1280x720p, 720x576p, 720x576i

Audio Decoding	
MPEG-1/2/2.5 Layer I&II&III, AC-3 (Dolby Digital), AAC	
Analog audio output	Stereo L/R
Digital audio output	S/PDIF (Coaxial)

Connectors	
ANT IN	x 1
LOOP	x 1
TV-SCART	x 1
HDMI	x 1
COAXIAL	x 1
Video Port	x 1
Audio RCA (Audio L, R)	x 1

Power supply	
Input voltage	AC 100~240V 50Hz
Power consumption	Operating Max-9W

Unit Dimensions	
Operating temperature	5～40℃
Unit Dimensions	235 mm(W) x 170 mm (D)x 38mm(H)
Weight	0.87kgs

* Specifications are subject to change without further notice.

Troubleshooting

If you experience problems with this receiver or its installation, in the first instance please read carefully the relevant sections of this User Manual and this Troubleshooting section.

Problem	Possible cause	What to do
Display on front panel not lit	Main lead unplugged	Check mains lead
	Main fuse blown	Check fuse
No signal found	Aerial is disconnected Aerial is damaged/misaligned	Check aerial lead Check aerial
	Out of digital signal area	Check with dealer
No picture or sound	Program not broadcasting now	Retune to another channel
Mosaic blocks in picture or picture freezes	Aerial may not be compatible	Check aerial
Scrambled channel message	Channel is scrambled	Select an alternative channel
Forgotten channel lock code		Use the override code
No response to remote control	Receiver off	Plug in and turn on receiver
	Handset not aimed correctly	Aim handset at front panel
	Front panel obstructed	Check for obstructions
	Remote control batteries are inserted incorrectly	Check batteries direction
	Handset batteries exhausted	Replace remote control batteries
After moving the receiver to another room, find can't receive the digital reception	The aerial feed may come through a distribution system which may reduce the digital signal now received by the receiver	Try a direct feed from the antenna

Warning: If this doesn't work, contact a qualified repair technician, never attempt to repair the receiver yourself.

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

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